

# P Ceratonia siliqua

## Common Name(s)

Carob, Locust Bean, St.John's-Bread

## How Used

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Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
30	(+)-CATECHIN	Fruit	--	--	Wealth of India.	
38	(-)-EPICATECHIN	Fruit	--	--	Wealth of India.	
2	(-)-EPICATECHIN-GALLATE	Fruit	--	--	Wealth of India.	
0	ABSCISIC-ACID	Fruit	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.	
3	ALANINE	Seed	19270	19270	1.937406602299025	
0	ALPHA-AMINOPIMELIC-ACID	Seed	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	AMINO-ACIDS	Seed	432400	432400	1	
14	ARGININE	Seed	55460	55460	1.305015423442096	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ASH	Fruit 20000	20000	-0.9494208084313518	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	ASH	Seed 30000	30000	-0.537791441673595	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
3	ASPARTIC-ACID	Seed 42300	42300	1.7498565420565382	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
20	BENZOIC-ACID	Fruit --	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	BETA-D-1,6-DI-O-GALLOYLGLUCOSE	Fruit --	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	BETA-D-GLUCOGALLIN	Fruit --	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
47	BETA-SITOSTEROL	Seed --	--		Wealth of India.	
6	BUTYRIC-ACID	Fruit --	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
2	CAMPESTEROL	Seed --	--		Wealth of India.	
0	CAPRONIC-ACID	Fruit --	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CARUBIN	Seed	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	CATECHIN-TANNIN	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
1	CELLULOSE	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
1	CELLULOSE	Seed	32500	32500	-0.8412892542802549	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CERATONIASE	Seed	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	CERATOSE	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	CHIRO-INOSITOL	Fruit	1000	1000		Abstract (See species file)
3	CONCANAVALIN-A	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	D-GALACTOSE	Seed	--	--		
0	D-GALACTOSE	Fruit	--	--		
0	D-MANNOSE	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	DELTA-5-AVENASTEROL	Seed --	--		Wealth of India.	
0	FAT	Fruit 5000	13000	-0.5419591354836385	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	FAT	Seed 2000	18000	-1.3030789334070778		
61	FERULIC-ACID	Fruit --	--		Wealth of India.	
15	FIBER	Seed --	68300	-0.5249281380367844	Wealth of India.	
13	FORMIC-ACID	Fruit --	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
8	FRUCTOSE	Fruit 50700	118300	0.9887597494010026	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	GALACTOMANNAN	Seed --	--		Wealth of India.	
62	GALLIC-ACID	Fruit --	--			
7	GLUCOSE	Fruit 56700	132300	0.509062632135154	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
8	GLUTAMIC-ACID	Seed 131600	131600	3.7924030897032144	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
12	GLYCINE	Seed 24910	24910	2.0180564011445847	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
0	GUM	Seed 350000	350000	1.921016257745398	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	

Chemical Plant Part		Low	High	StdDev	Reference	Citation	
		PPM	PPM				
0	HEMICELLULOSE	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.		
0	HEMICELLULOSE	Seed	32500	32500	-1	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
7	HISTIDINE	Seed	11750	11750	1.4956374478753787	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
1	HYDROXYPROLINE	Seed	470	470		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
0	INVERT-SUGARS	Fruit	39000	91000	-0.9540886037735947	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
2	ISOBUTYRIC-ACID	Fruit	6000	13000		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
3	ISOLEUCINE	Seed	16450	16450	0.7603066945337698	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
0	ISOSCHAFTOSIDE	Fruit	--	--			
8	L-ALANINE	Fruit	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.	
2	LEUCINE	Seed	30550	30550	1.2891936678205187	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
0	LEUCANTHOCYANINS	Fruit	--	--		Wealth of India.	
2	LEUCODELPHINIDIN	Fruit	--	--			

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
13	LIGNIN	Fruit --		--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
1	LIGNOCERIC-ACID	Seed 20	180	-0.605928834402467	Wealth of India.	
27	LINOLEIC-ACID	Seed 1185	10655	-0.8265405178259713	Wealth of India.	
0	LINOLENIC-ACID	Seed 10	90	-0.578290977009894	Wealth of India.	
4	LYSINE	Seed 26320	26320	1.926362960526928	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
2	MALTOSE	Fruit --		--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.	
15	METHIONINE	Seed 4700	4700	0.09946646224544615	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
3	MUCILAGE	Fruit 20000	30000	1.4102204808154215	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
3	MUCILAGE	Seed 400000	400000	1.2761704382802022	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	MYO-INOSITOL	Fruit 5000	10000	Abstract (See species file)		
34	MYRICETIN	Fruit --		--	Wealth of India.	
1	NEOSCHAFTOSIDE	Fruit --		--		
18	OLEIC-ACID	Seed 410	3670	-0.9489306565927755	Wealth of India.	
13	PALMITIC-ACID	Seed 155	1405	-0.6706113407297248	Wealth of India.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
24	PECTIN	Fruit --	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.		
0	PENTOSANE	Fruit	54000	54000	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.		
7	PHENYLALANINE	Seed	15040	15040	0.41791077800810894	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
8	PHLOROGLUCINOL	Fruit --	--		Wealth of India.		
5	PINITOL	Fruit	50000	75000		Abstract (See species file)	
0	PRIMVEROSE	Fruit --	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.		
0	PROLINE	Seed	18800	18800	1.4663990822074793	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
0	PROTEIN	Seed	160300	630000	3.524439164689079		
23	PYROGALLOL	Fruit --	--				
176	QUERCETIN	Fruit --	--		Wealth of India.		
1	RAFFINOSE	Leaf --	--		Wealth of India.		
0	SACCHAROSE	Fruit	60000	368000		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
7	SALICYLATES	Seed --	--	-0.3401776874861938			

	Chemical Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	SAPONIN	Fruit --	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
1	SCHAFTOSIDE	Fruit --	--			
1	SERINE	Seed 23500	23500	2.4772155502783995	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
5	STARCH	Fruit 350000	350000	0.0779800338608496	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
8	STEARIC-ACID	Seed 200	1820	-0.525902220446434	Wealth of India.	
12	STIGMASTEROL	Seed --	--		Wealth of India.	
14	SUCROSE	Fruit 75000	175000	0.4939788238189215		
0	SUGARS	Fruit 300000	700000	2.0052132101760605	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
35	TANNIN	Bark 12000	500000	3.1396861512455287		
35	TANNIN	Fruit 15000	15000	-0.7669659110914757	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
4	THREONINE	Seed 16920	16920	1.9646079005719668	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	
93	TOCOPHEROL	Seed --	--			
8	TYROSINE	Seed 16450	16450	2.0174163981767372	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
3	VALINE	Seed 20680	20680	1.0676065395175858	Duke, J. A.	Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	WATER	Fruit 37000	247000	-2.276556311161208	ANON.	1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	WATER	Seed 88900	136300	-0.32812640757501144		
3	XYLOSE	Fruit 6900	16100		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	